IN THE CLAIMS:

The following is a complete list of the claims. This listing replaces all earlier versions and listings of the claims.

Claim 1 (previously presented): An image processing system comprising: calculating means for calculating a degree of similarity from among a plurality of image frames of dynamic image data;

designating means for designating a length of a digest dynamic image;

determining means for determining scene-change frames based on the degree of similarity calculated by said calculating means; and

dynamic image means for performing automatic editing and preparation of the digest dynamic image of the dynamic image data of the designated length by merging frames for a specified duration of each scene delimited by a scene change.

Claim 2 (previously presented): The image processing system according to claim 1, further comprising:

detecting means for detecting blank scenes; and

exception processing means for performing exception processing in which an initial image frame after exclusion of a blank scene detected at the beginning of the dynamic image by said detecting means is deemed a scene-change frame.

Claim 3 (previously presented): The image processing system according to claim 2, wherein said exception processing means also performs exception processing in which a final image frame after exclusion of a blank scene detected at the end of the dynamic image by said detecting means is deemed a scene-change frame.

Claim 4 (previously presented): The image processing system according to claim 3, wherein when a time duration for each scene-change frame of two scenes in close proximity is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is equal to the specified duration.

Claim 5 (previously presented): The image processing system according to claim 4, wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of the first scene, all the frame information of the scene-change frame of the second scene are merged with the scene-change frame of the first scene.

Claim 6 (previously presented): The image processing system according to claim 5, wherein when a mode which provides a target duration for the completed digest dynamic image has been indicated, a digest having a duration in the vicinity of the target duration is prepared by first finding all of the scene-change frames of the dynamic image, and then performing processing for merging scenes into the digest, preferentially beginning

with scenes whose scene-change frame has a low degree of similarity to the immediately preceding frame or some preceding frames.

Claim 7 (original): The image processing system according to claim 6, wherein when there are few scene changes, and the digest dynamic image is more than a certain threshold value shorter than the indicated duration, a digest having a duration in the vicinity of the target duration is prepared by gradually increasing the specified duration for addition of each scene.

Claim 8 (original): The image processing system according to claim 7, wherein for a dynamic image for which no scene change has been detected, if there is a blank scene at the beginning of the dynamic image, the blank scene is excluded, and frames are extracted from the first non-blank scene for the target duration and treated as the digest dynamic image.

Claim 9 (previously presented): An image processing method comprising the steps of:

calculating a degree of similarity from among a plurality of image frames of dynamic image data;

similarity; and

designating a length of a digest dynamic image;

determining scene-change frames based on the calculated degree of

performing automatic editing and preparation of the digest dynamic image of the dynamic image data of the designated length by merging frames for a specified duration from each scene-change frame.

Claim 10 (previously presented): The image processing method according to claim 9, further comprising the steps of:

detecting blank scenes; and

performing exception processing in which an initial image frame after exclusion of a blank scene detected at the beginning of the dynamic image in said detecting step is deemed a scene-change frame.

Claim 11 (previously presented): The image processing method according to claim 10, further comprising the step of:

performing exception processing in which a final image frame after exclusion of a blank scene detected at the end of the dynamic image in said detecting step is deemed a scene-change frame.

Claim 12 (previously presented): The image processing method according to claim 11, wherein when a time duration for each scene-change frame of two scenes in close proximity is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is equal to the specified duration.

Claim 13 (previously presented): The image processing method according to claim 12, wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of a first scene, all the frame information of the scene-change frame of the second scene are merged with the scene-change frame of the first scene.

Claim 14 (previously presented): The image processing method according to claim 13, wherein when a mode has been indicated which provides a target duration for the completed digest dynamic image, a digest having a duration in the vicinity of the target duration is prepared by first finding all of the scene-change frames of the dynamic image, and then performing processing for merging scenes into the digest, preferentially beginning with scenes whose scene-change frame has a low degree of similarity to the immediately preceding frame or some preceding frames.

Claim 15 (original): The image processing method according to claim 14, wherein when there are few scene changes, and the digest dynamic image is more than a certain threshold value shorter than the indicated duration, a digest having a duration in the vicinity of the target duration is prepared by gradually increasing the specified duration for addition of each scene.

Claim 16 (original): The image processing system according to claim 15, wherein for a dynamic image for which no scene change has been detected, if there is a blank scene at the beginning of the dynamic image, the blank scene is excluded, and frames

are extracted from the first non-blank scene for the target duration and treated as the digest dynamic image.

Claim 17 (previously presented): A recording medium recording program code of an image processing method comprising the steps of:

calculating a degree of similarity from among a plurality of image frames of dynamic image data;

designating a length of a digest dynamic image;

determining scene-change frames based on the calculated degree of similarity; and

performing automatic editing and preparation of the digest dynamic image of the dynamic image data of the designated length by merging frames for a specified duration from each scene-change frame.

Claim 18 (previously presented): An image processing system comprising: calculating means for calculating a degree of similarity from among a plurality of image frames of dynamic image data;

determining means for determining scene-change frames based on the degree of similarity calculated by said calculating means; and

dynamic image means for performing automatic editing and preparation of a digest dynamic image of the dynamic image data by merging a specified duration of frames having a low degree of similarity with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a dynamic digest.

Claim 19 (canceled)

Claim 20 (previously presented): An image processing system comprising: calculating means for calculating a degree of similarity from among a plurality of image frames of dynamic image data;

determining means for determining scene-change frames based on the degree of similarity calculated by said calculating means; and

dynamic image means for performing automatic editing and preparation of a digest dynamic image of the dynamic image data by merging a specified duration of frames having a high degree of similarity with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a quiet digest.

Claim 21 (canceled)

Claim 22 (previously presented): The image processing system according to claim 18, further comprising:

detecting means for detecting blank scenes; and
exception processing means for performing exception processing in
which an initial image frame after exclusion of a blank scene detected at the beginning of

the dynamic image by said detecting means is deemed a scene-change frame.

Claim 23 (canceled)

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Claim 24 (previously presented): The image processing system according to claim 20, further comprising:

detecting means for detecting blank scenes; and

exception processing means for performing exception processing in which an initial image frame after exclusion of a blank scene detected at the beginning of the dynamic image by said detecting means is deemed a scene-change frame.

Claim 25 (canceled)

Claim 26 (previously presented): The image processing system according to claim 22, wherein said exception processing means also performs exception processing in which a final image frame after exclusion of a blank scene detected at the end of the dynamic image by said detecting means is deemed a scene-change frame.

Claim 27 (canceled)

Claim 28 (previously presented): The image processing system according to claim 24, wherein said exception processing means also performs exception processing in which a final image frame after exclusion of a blank scene detected at the end of the dynamic image by said detecting means is deemed a scene-change frame.

Claim 29 (canceled)

Claim 30 (previously presented): The image processing system according to claim 26, wherein when a time duration for each scene-change frame of two scenes in close proximity is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is equal to the specified duration.

Claim 31 (canceled)

Claim 32 (previously presented): The image processing system according to claim 28, wherein when a time duration for each scene-change frame of two scenes in close proximity is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is equal to the specified duration.

Claim 33 (canceled)

Claim 34 (previously presented): The image processing system according to claim 30, wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of the first scene, all the frame information of the scene-change frame of the second scene are merged with the scene-change frame of the first scene.

Claim 35 (canceled)

Claim 36 (previously presented): The image processing system according to claim 32, wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of the first scene, all the frame information of the scene-change frame of the second scene are merged with the scene change frame of the first scene.

Claim 37 (canceled)

Claim 38 (previously presented): The image processing system according to claim 34, wherein when a mode has been indicated which provides a target duration for the completed digest dynamic image, a digest having a duration in the vicinity of the target duration is prepared by first finding all of the scene-change frames of the dynamic image, and then performing processing for merging scenes into the digest, preferentially beginning with scenes whose scene-change frame has a low degree of similarity to the immediately preceding frame or some preceding frames.

Claim 39 (canceled)

Claim 40 (previously presented): The image processing system according to claim 36, wherein when a mode has been indicated which provides a target duration for the completed digest dynamic image, a digest having a duration in the vicinity of the target

duration is prepared by first finding all of the scene-change frames of the dynamic image, and then performing processing for merging scenes into the digest, preferentially beginning with scenes whose scene-change frame has a low degree of similarity to the immediately preceding frame or some preceding frames.

Claim 41 (canceled)

Claim 42 (original): The image processing system according to claim 38, wherein when there are few scene changes, and the digest dynamic image is more than a certain threshold value shorter than the indicated duration, a digest having a duration in the vicinity of the target duration is prepared by gradually increasing the specified duration for addition of each scene.

Claim 43 (canceled)

Claim 44 (original): The image processing system according to claim 40, wherein when there are few scene changes, and the digest dynamic image is more than a certain threshold value shorter than the indicated duration, a digest having a duration in the vicinity of the target duration is prepared by gradually increasing the specified duration for addition of each scene.

Claim 45 (canceled)

Claim 46 (original): The image processing system according to claim 42, wherein for a dynamic image for which no scene change has been detected, if there is a blank scene at the beginning of the dynamic image, the blank scene is excluded, and frames are extracted from the first non-blank scene for the target duration and treated as the digest dynamic image.

Claim 47 (canceled)

Claim 48 (original): The image processing system according to claim 44, wherein for a dynamic image for which no scene change has been detected, if there is a blank scene at the beginning of the dynamic image, the blank scene is excluded, and frames are extracted from the first non-blank scene for the target duration and treated as the digest dynamic image.

Claim 49 (canceled)

Claim 50 (original): The image processing system according to claim 18, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 51 (canceled)

Claim 52 (original): The image processing system according to claim 20, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 53 (canceled)

Claim 54 (original): The image processing system according to claim 22, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 55 (canceled)

Claim 56 (original): The image processing system according to claim 24, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 57 (canceled)

Claim 58 (original): The image processing system according to claim 26, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 59 (canceled)

Claim 60 (original): The image processing system according to claim 28, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 61 (canceled)

Claim 62 (original): The image processing system according to claim 30, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 63 (canceled)

Claim 64 (original): The image processing system according to claim 32, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 65 (canceled)

Claim 66 (original): The image processing system according to claim 34, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 67 (canceled)

Claim 68 (original): The image processing system according to claim 36, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 69 (canceled)

Claim 70 (original): The image processing system according to claim 38, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 71 (canceled)

Claim 72 (original): The image processing system according to claim 40, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 73 (canceled)

Claim 74 (original): The image processing system according to claim 42, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 75 (canceled)

Claim 76 (original): The image processing system according to claim 44, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 77 (canceled)

Claim 78 (original): The image processing system according to claim 46, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 79 (canceled)

Claim 80 (original): The image processing system according to claim 48, wherein a user is able to select and specify whether to save a digest as a file, or replay the digest and discard the data.

Claim 81 (canceled)

Claim 82 (previously presented): An image processing method comprising the steps of:

calculating a degree of similarity from among a plurality of image frames of dynamic image data;

determining scene-change frames based on the calculated degree of similarity; and

performing automatic editing and preparation of a digest dynamic image of the dynamic image data by merging from each scene delimited by a scene change a specified duration of frames having a low degree of similarity with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a dynamic digest.

Claim 83 (canceled)

Claim 84 (previously presented): An image processing method comprising the steps of:

calculating a degree of similarity from among a plurality of image frames of dynamic image data;

determining scene-change frames based on the calculated degree of similarity; and

performing automatic editing and preparation of a digest dynamic image of the dynamic image data by merging from each scene delimited by a scene change a specified duration of frames having a high degree of similarity with an immediately preceding frame or some preceding frames pm receipt of instructions to prepare a quiet digest.

Claim 85 (canceled)

Claim 86 (previously presented): The image processing method according to claim 82, further comprising the steps of:

detecting blank scenes; and

performing exception processing in which an initial image frame after exclusion of a blank scene detected at the beginning of the dynamic image in said detecting step is deemed a scene-change frame.

Claim 87 (canceled)

Claim 88 (previously presented): The image processing method according to claim 84, further comprising the steps of:

detecting blank scenes; and

performing exception processing in which an initial image frame after exclusion of a blank scene detected at the beginning of the dynamic image in said detecting step is deemed a scene-change frame.

Claim 89 (canceled)

Claim 90 (previously presented): The image processing method according to claim 86, further comprising the step of:

performing exception processing in which a final image frame after exclusion of a blank scene detected at the end of the dynamic image in said detecting step is deemed a scene-change frame.

Claim 91 (canceled)

Claim 92 (previously presented): The image processing method according to claim 88, further comprising the step of:

performing exception processing in which a final image frame after exclusion of a blank scene detected at the end of the dynamic image in said detecting step is deemed a scene-change frame.

Claim 93 (canceled)

Claim 94 (currently amended): The image processing method according to claim 90, wherein when a time duration for each scene-change frame of two scenes in close proximity is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is [[eq]] equal to the specified duration.

Claim 95 (canceled)

Claim 96 (previously presented): The image processing method according to claim 92, wherein when a duration for each between scene-change frame of two scenes in close proximity is less than the specified duration, frame information from a scene-change frame of the first scene and frame information through a frame from the

scene-change frame of the second scene are treated as the result of merging of the scene-change frames of the two scenes into one scene whose duration is equal to the specified duration.

Claim 97 (canceled)

Claim 98 (previously presented): The image processing method according to claim 94, wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of the first scene, all the frame information of the scene-change frame of the second scene are merged with the scene-change frame of the first scene.

Claim 99 (canceled)

Claim 100 (previously presented): The image processing method according to claim 96, wherein when the duration of the scene-change frame of the second scene to be merged falls within a specified duration of the scene-change frame of the first scene, all the frame information of the scene-change frame of the second scene are merged with the scene-change frame of the first scene.

Claim 101 (canceled)

Claim 102 (previously presented): The image processing method according to claim 98, wherein when a mode has been indicated which provides a target duration for the completed digest dynamic image, a digest having a duration in the vicinity of the target duration is prepared by first finding all of the scene-change frames of the dynamic image, and then performing processing for merging scenes into the digest, preferentially beginning with scenes whose scene-change frame has a low degree of similarity to the immediately preceding frame or some preceding frames.

Claim 103 (canceled)

Claim 104 (previously presented): The image processing method according to claim 100, wherein when a mode has been indicated which provides a target duration for the completed digest dynamic image, a digest having a duration in the vicinity of the target duration is prepared by first finding all of the scene-change frames of the dynamic image, and then performing processing for merging scenes into the digest, preferentially beginning with scenes whose scene-change frame has a low degree of similarity to the immediately preceding frame or some preceding frames.

Claim 105 (canceled)

Claim 106 (original): The image processing method according to claim 102, wherein when there are few scene changes, and the digest dynamic image is more than a certain threshold value shorter than the indicated duration, a digest having a duration in

the vicinity of the target duration is prepared by gradually increasing the specified duration for addition of each scene.

Claim 107 (canceled)

Claim 108 (original): The image processing method according to claim 104, wherein when there are few scene changes, and the digest dynamic image is more than a certain threshold value shorter than the indicated duration, a digest having a duration in the vicinity of the target duration is prepared by gradually increasing the specified duration for addition of each scene.

Claim 109 (canceled)

Claim 110 (original): The image processing method according to claim 106, wherein for a dynamic image for which no scene change has been detected, if there is a blank scene at the beginning of the dynamic image, the blank scene is excluded, and frames are extracted from the first non-blank scene for the target duration and treated as the digest dynamic image.

Claim 111 (canceled)

Claim 112 (original): The image processing method according to claim 108, wherein for a dynamic image for which no scene change has been detected, if there is

a blank scene at the beginning of the dynamic image, the blank scene is excluded, and frames are extracted from the first non-blank scene for the target duration and treated as the digest dynamic image.

Claim 113 (canceled)

Claim 114 (previously presented): A recording medium recording program code of an image processing method comprising the steps of:

calculating a degree of similarity from among a plurality of image frames of dynamic image data;

determining scene-change frames based on the calculated degree of similarity; and

performing automatic editing and preparation of a digest dynamic image of the dynamic image data by merging from each scene delimited by a scene change a specified duration of frames having a low degree of similarity with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a dynamic digest.

Claim 115 (previously presented): A recording medium recording program code of an image processing method comprising the steps of:

calculating a degree of similarity from among a plurality of image frames of dynamic image data;

determining scene-change frames based on the calculated degree of similarity; and

performing automatic editing and preparation of a digest dynamic image of the dynamic image data by merging from each scene delimited by a scene change a specified duration of frames having a high degree of similarity with an immediately preceding frame or some preceding frames on receipt of instructions to prepare a quiet digest.